

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-12 (canceled)

13.(new) An optical component for terahertz wave transmission optical system characterized by comprising a high polymer of cycloolefin.

14.(new) An optical component for terahertz wave transmission optical system as claimed in claim 13, characterized in that the optical component is any of a lens, a prism, a beam supplier, a beam splitter, a fiber, a waveguide, a mirror, a polarizer and a window.

15.(new) A terahertz wave optical system characterized by having a terahertz wave generation source, and an optical component comprising a high polymer of cycloolefin arranged on the optical axis of terahertz waves generated from said terahertz generation source.

16.(new) A terahertz wave optical system as claimed in claim 15, characterized by being constructed so that a visible light source is disposed and visible light from said visible light source is superimposed on the optical axis of the terahertz waves.

17.(new) A terahertz wave optical system as claimed in claim 15, characterized in that a frequency of the terahertz waves is 100 GHz to 10 THz.

18.(new) A terahertz wave optical system as claimed in claim 16, characterized in that a frequency of the terahertz waves is 100 GHz to 10 THz.

19.(new) A terahertz band wave processing apparatus configured to have:

- a terahertz wave generator for generating predetermined terahertz waves,

- a terahertz wave detector for detecting the terahertz waves,

- a first light transmission regulator for defining a light transmission path between the terahertz wave generator and the terahertz wave detector and regulating the optical axis,

- a light semi-transmissive plate for transmitting terahertz waves on the optical axis between the first light transmission regulator and the terahertz wave detector and reflecting light incident at a predetermined incident angle, and

- a second light transmission regulator set on the optical axis between the light semi-transmissive plate and the terahertz wave detector, characterized in that

- predetermined visible light enters the light semi-transmissive plate as pilot light and is reflected by said light semi-transmissive plate and the optical axis of said reflected visible light is superimposed on the optical axis of the terahertz waves and the optical axis of said terahertz waves can be visually recognized in a simulated manner by the visible light.